

## Alignment for A30325 w/seg ID NO 173

## ALIGNMENTS

RESULT 1  
A30325  
membrane alanyl aminopeptidase (EC 3.4.11.2) precursor - human  
N:Alternate names: aminopeptidase N; cell surface glycoprotein CD13  
C:Species: Homo sapiens (man)  
C:Date: 02-Feb-1990 #sequence\_revision 02-Feb-1990 #text\_change 01-Feb-2002  
C:Accession: A30325; S01658; I39442; S35688; S56099  
R:Look, A.T.; Ashmun, R.A.; Shapiro, L.H.; Feilper, S.C.  
J. Clin. Invest. 83, 1299-1307, 1989  
A:Title: Human myeloid plasma membrane glycoprotein CD13 (gp150) is identical to aminopeptidase N  
A:Reference number: A30325; MUID:89198086  
A:Accession: A30325  
A>Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-967 <LOO>  
A:Cross-references: GB:M22324; NID:g178535; PIDN:AAA51719.1; PID:g178536  
R:Olsen, J.; Cowell, G.M.; Konigshofer, E.; Danielson, E.M.; Moller, J.; Laustsen, L.; H  
FEBS Lett. 238, 307-314, 1988  
A:Title: Complete amino acid sequence of human intestinal aminopeptidase N as deduced fr  
A:Reference number: S01658; MUID:89005706  
A:Accession: S01658  
A:Molecule type: mRNA  
A:Residues: 1-85, 'R', '87-535, 'E', '537-602, 'M', '604-886, 'P', '888-967 <OLS>  
A:Cross-references: EMBL:X13276  
R:Shapiro, L.H.; Ashmun, R.A.; Roberts, W.M.; Look, A.T.  
J. Biol. Chem. 266, 11999-12007, 1991  
A:Title: Separate promoters control transcription of the human aminopeptidase N gene in  
A:Reference number: I39442; MUID:91268079  
A:Accession: I39442  
A:Molecule type: DNA  
A:Residues: 1-15 <RES>  
A:Cross-references: GB:M55522; NID:g178532; PIDN:AAA83399.1; PID:g178533  
R:Nunez, L.; Amigo, L.; Rigotti, A.; Pugliesi, L.; Mingrone, G.; Greco, A.V.; Nervi, F.  
FEBS Lett. 329, 84-88, 1993  
A:Title: Cholesterol crystallization-promoting activity of aminopeptidase-N isolated fro  
A:Reference number: S35688; MUID:93355071  
A:Accession: S35688  
A:Molecule type: protein  
A:Residues: 2-18 <NUN>  
R:Watanabe, Y.; Iwaki-Egawa, S.; Mizukoshi, H.; Fujimoto, Y.  
Biol. Chem. Hoppe-Seyler 376, 397-400, 1995  
A:Title: Identification of an alanine aminopeptidase in human maternal serum as a membra  
A:Reference number: S56098; MUID:96066273  
A:Accession: S56098  
A:Molecule type: protein  
A:Residues: 2-20 <WAT>  
A:Accession: S56099  
A>Status: preliminary  
A:Molecule type: protein  
A:Residues: 70-77, 'X', '79-81 <WAZ>  
C:Genetics:  
A:Gene: GDB:ANPEP; CD13; PEPN  
A:Cross-references: GDB:118728; OMIM:151530  
A:Map position: 15q25-15q26  
C:Superfamily: membrane alanyl aminopeptidase  
C:Keywords: aminopeptidase; glycoprotein; transmembrane protein

Query Match 100.0%; Score 1278; DB 2; Length 967;  
Best Local Similarity 100.0%; Pred. No. 4e-98;  
Matches 239; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 LFTFRNNTNNRTEIPENLMDQYSEVNAISTACSNVPECEMVSGLFKQNMENNNPI 60  
DB 729 LFTFRNNTNNRTEIPENLMDQYSEVNAISTACSNVPECEMVSGLFKQNMENNNPI 788  
QY 61 HPNLRSTVYCNAIOGGEEDWFQEFNATLVNEADKLRALACSKELWILNRYLSYT 120  
789 HPNLRSTVYCNAIOGGEEDWFQEFNATLVNEADKLRALACSKELWILNRYLSYT 848

QY 121 LNPDLIRKQDATSTIIITNNVIGQGLVWDFVQSNWKKLFNDYGGGFSFNLQAVTRR 180  
DB 849 LNPDLIRKQDATSTIIITNNVIGQGLVWDFVQSNWKKLFNDYGGGFSFNLQAVTRR 908  
QY 181 FSTEYELQQLBQPKKDNEETGFGSGTRALEQALEKTKANIKWVKENKEVVLQWFTENSK 239  
DB 909 FSTEYELQQLBQPKKDNEETGFGSGTRALEQALEKTKANIKWVKENKEVVLQWFTENSK 967  
RESULT 2